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**SOUTH AFRICAN QUALIFICATIONS AUTHORITY
REGISTERED UNIT STANDARD:**

Manufacture timber roof trusses

SAQA US ID	UNIT STANDARD TITLE			
14679	Manufacture timber roof trusses			
ORIGINATOR		REGISTERING PROVIDER		
SGB Building Construction				
QUALITY ASSURING BODY				
-				
FIELD			SUBFIELD	
Field 12 - Physical Planning and Construction			Building Construction	
ABET BAND	UNIT STANDARD TYPE	OLD NQF LEVEL	NEW NQF LEVEL	CREDITS
Undefined	Regular	Level 3	NQF Level 03	6
REGISTRATION STATUS		REGISTRATION START DATE	REGISTRATION END DATE	SAQA DECISION NUMBER
Reregistered		2009-11-03	2012-11-03	SAQA 0160/05
LAST DATE FOR ENROLMENT		LAST DATE FOR ACHIEVEMENT		
2013-11-03		2016-11-03		

In all of the tables in this document, both the old and the new NQF Levels are shown. In the text (purpose statements, qualification rules, etc), any reference to NQF Levels are to the old levels unless specifically stated otherwise.

This unit standard does not replace any other unit standard and is not replaced by any other unit standard.

PURPOSE OF THE UNIT STANDARD

Learners assessed as competent against this unit standard will be able to set out, cut and assemble timber roof trusses in accordance with illustrated configurations, National Building Regulations, safety legislation and within prescribed timeframes.

This competence complements the other carpentry competencies and contributes to the development of a professional community of Carpentry practitioners, who are able to use Science and Technology responsibly and cost-effectively. It should result in improved quality and service delivery in Carpentry. The contribution to The National Skills Development Strategy is the key developmental interface between learners and new competencies to be achieved.

LEARNING ASSUMED TO BE IN PLACE AND RECOGNITION OF PRIOR LEARNING

FETC NQF Level 2 Literacy and Numeracy competencies.

- Use drawings and identify and use tools, equipment and materials for construction carpentry site practice.
- Set out and prepare construction carpentry work areas.

UNIT STANDARD RANGE

The typical scope of this unit standard is:

The learner is required to demonstrate competence in manufacturing roof trusses with the following configurations: howe truss, gable roof truss, hip truss, hip rafter, valley rafter, valley jack, nail plate roof truss.

Specific Outcomes and Assessment Criteria:

SPECIFIC OUTCOME 1

Interpret drawings and prepare cutting lists

ASSESSMENT CRITERIA

ASSESSMENT CRITERION 1

1. Cutting lists are prepared to nearest standard stock lengths.

SPECIFIC OUTCOME 2

Prepare the work area and select, use and maintain tools, equipment and materials

ASSESSMENT CRITERIA

ASSESSMENT CRITERION 1

1. Tools, machines and equipment are identified and correctly used.

ASSESSMENT CRITERION 2

2. Tools and equipment are functional.

ASSESSMENT CRITERION 3

3. Safety regulations are adhered to.

ASSESSMENT CRITERION 4

4. All work is completed within allocated time frames.

SPECIFIC OUTCOME 3

Set out roof truss dimensions and cut templates (jigs)

ASSESSMENT CRITERIA

ASSESSMENT CRITERION 1

1. Roof trusses are set out to specified dimensions and required tolerances.

ASSESSMENT CRITERION 2

2. Safety regulations are adhered to.

ASSESSMENT CRITERION 3

3. All work is completed within allocated time frames.

SPECIFIC OUTCOME 4

Mark and cut timber to specifications

ASSESSMENT CRITERIA

ASSESSMENT CRITERION 1

1. Timber is marked and cut to specification.

ASSESSMENT CRITERION 2

2. Safety regulations are adhered to.

ASSESSMENT CRITERION 3

3. All work is completed within allocated time frames.

SPECIFIC OUTCOME 5

Assemble (construct) roof truss components

ASSESSMENT CRITERIA

ASSESSMENT CRITERION 1

1. Components are assembled (constructed) in accordance with illustrated configurations, required tolerances and in accordance with National Building Regulations.

ASSESSMENT CRITERION 2

2. Safety regulations are adhered to.

ASSESSMENT CRITERION 3

3. All work is completed within allocated time frames.

SPECIFIC OUTCOME 6

Protect and store timber roof trusses

ASSESSMENT CRITERIA

ASSESSMENT CRITERION 1

1. Assembled roof trusses are covered and stored on level ground.

ASSESSMENT CRITERION 2

2. Safety regulations are adhered to.

ASSESSMENT CRITERION 3

3. All work is completed within allocated time frames.

UNIT STANDARD ACCREDITATION AND MODERATION OPTIONS

- Anyone assessing a learner or moderating the assessment of a learner against this unit standard must be registered as an assessor with the CETA - ETQA, for "the National Certificate in Construction carpentry".
- Any institution offering learning that will enable the achievement of this unit standard must be

accredited as a provider with the CETA - ETQA.

- CETA - ETQA is responsible for moderation of learner achievements of learners who meet the requirements of this qualification.

UNIT STANDARD ESSENTIAL EMBEDDED KNOWLEDGE

- Roof carpentry terms and definitions.
- Roof carpentry tools, equipment and materials.
- Roof layout plans.
- Size, grade and stock lengths of timber.
- Connecting devices and fasteners (nails, carriage bolts, joints).
- Non-standard connecting devices and fasteners (staples).
- Different roof truss configurations and assembly techniques (howe roof truss, gable end truss, hip truss, valley jack).
- National Building Regulations applicable to the context of this unit standard.
- Occupational Health and Safety legislation applicable to the context of this unit standard.

Critical Cross-field Outcomes (CCFO):

UNIT STANDARD CCFO IDENTIFYING

Identify and solve problems and make decisions using critical and creative thinking.

- Identify timber size, stock length, grade and type for manufacturing the specified roof trusses and determine the quantities to be ordered.

UNIT STANDARD CCFO ORGANISING

Organise and manage themselves and their activities responsibly and effectively.

- Maintain tools and equipment in good working order to ensure that the manufacture of roof trusses is carried out effectively and the cost to company for the frequent replacement of tools and equipment is minimised.
- Maintain a neat, clean and tidy work area.
- Plan work so that roof trusses are manufactured within the specified deadlines.

UNIT STANDARD CCFO COLLECTING

Collect, analyse, organise and critically evaluate information.

- Check template measurements against working drawing specifications to ensure completed roof trusses are manufactured according to size.

UNIT STANDARD CCFO COMMUNICATING

Communicate effectively using visual, symbolic, and/or language skills in various modes.

- Confirm your understanding of all requirements specified for the design of the roof with the client/architect before commencing with the work at hand so as to minimise future delays that might be caused because this work has to be redone.
- Communicate in a clear and audible manner when issuing instructions to team members so that all verbal instructions are clearly understood and can be carried out as required.

UNIT STANDARD CCFO SCIENCE

Use science and technology effectively and critically, showing responsibility towards the environments and the health of others.

- Use conversion tables to calculate structural strength.
- Use the appropriate connecting devices and fasteners for securing roof trusses.
- Check the safety and security of scaffolding at the beginning of each new work day to minimise accident or injury to yourself and other team members.

UNIT STANDARD CCFO DEMONSTRATING

Demonstrate an understanding of the world as a set of related systems, by recognising that problem solving contexts do not exist in isolation.

- Ensure that materials, tools and equipment used to manufacture roof trusses is safely and securely stored and protected on the building site to minimise the risk of theft, accident or injury to site personnel or visitors to the building site.
- The accurate interpretation of architect/client`s concept and the completion of work within specified time frames results in ongoing business opportunities for the organisation.

UNIT STANDARD CCFO CONTRIBUTING

Reflecting on and exploring a variety of strategies to learn more effectively.

- Assess the work that you have completed to identify areas that can be improved on when manufacturing roof trusses in the future.

QUALIFICATIONS UTILISING THIS UNIT STANDARD:

	ID	QUALIFICATION TITLE	OLD LEVEL	NEW LEVEL	STATUS	END DATE
Core	22670	National Certificate: Construction Carpentry	Level 3	NQF Level 03	Passed the End Date - Status was "Reregistered"	2009-03-12
Elective	65409	National Certificate: Building and Civil Construction	Level 3	NQF Level 03	Registered	2012-03-12

PROVIDERS CURRENTLY ACCREDITED TO OFFER THIS UNIT STANDARD:

This information shows the current accreditations (i.e. those not past their accreditation end dates), and is the most complete record available to SAQA as of today. Some Quality Assuring Bodies have a lag in their recording systems for provider accreditation, in turn leading to a lag in notifying SAQA of all the providers that they have accredited to offer qualifications and unit standards, as well as any extensions to accreditation end dates. The relevant Quality Assuring Body should be notified if a record appears to be missing from here.

NONE

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